

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/16926

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H01M8/04, H01M8/00, G03B17/02, G03B17/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01M8/04, H01M8/00, G03B17/02, G03B17/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004

Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI/L

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	EP 0982788 A2 (GENERAL MOTORS CORP.), 01 March, 2000 (01.03.00), Claims; Figure & JP 2000-67896 A (GENERAL MOTORS CORP.), 03 March, 2000 (03.03.00), Claims; Fig. 1	1-3, 7-12, 14-17 4-6, 13
Y	JP 2002-20101 A (Honda Motor Co., Ltd.), 23 January, 2002 (23.01.02), Par. Nos. [0008], [0019]; Fig. 2 (Family: none)	1-3, 7-12, 14-17
Y	JP 2001-273915 A (Osaka Gas Co., Ltd.), 05 October, 2001 (05.10.01), Claims; Par. Nos. [0020], [0026], [0047] (Family: none)	1-3, 7-12, 14-17

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier document but published on or after the international filing date
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 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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 "&" document member of the same patent family

Date of the actual completion of the international search
02 February, 2004 (02.02.04)

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Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-373684 A (Yamaha Motor Co., Ltd.), 26 December, 2002 (26.12.02), Par. Nos. [0081], [0102], [0148], [0158]. (Family: none)	1-3, 7-12, 14-17
Y	JP 2002-81331 A (Toyota Motor Corp.), 22 March, 2002 (22.03.02), Claim 5; Par. No. [0027] (Family: none)	1-3, 7-12, 14-17
Y	JP 2002-56852 A (Sony Corp.), 22 February, 2002 (22.02.02), Claim 4; Par. No. [0047]; Fig. 1 (Family: none)	15-17
Y	JP 3-276576 A (Fuji Electric Co., Ltd.), 06 December, 1991 (06.12.91), Claims; Figs. 1 to 2 (Family: none)	15-17